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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/574,493	03/23/2007	Tetsuichi Motegi	288939US0X PCT	2363	
22859 7590 677682008 OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET			EXAM	EXAMINER	
			KERNS,	KERNS, KEVIN P	
ALEXANDRIA, VA 22314		ART UNIT	PAPER NUMBER		
		1793			
			NOTIFICATION DATE	DELIVERY MODE	
			07/08/2008	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

Application No. Applicant(s) 10/574,493 MOTEGLET AL. Office Action Summary Examiner Art Unit Kevin P. Kerns 1793 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 25 March 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 13-23 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 13-23 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date 3/25/08

Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Notice of Draftsperson's Patent Drawing Review (PTO-948)

Attachment(s)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

5 Notice of Informal Patent Application

Page 2

Application/Control Number: 10/574,493

Art Unit: 1793

DETAILED ACTION

Claim Rejections - 35 USC § 102

 The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- Claims 13, 14, 16, 17, 19, 21, and 23 are rejected under 35 U.S.C. 102(e) as being anticipated by Adachi et al. (US 6,769,473).

Regarding claims 13, 14, 19, and 23 (see column 20, lines 29-56; column 26, lines 38-54; and Figures 21 and 32), Adachi et al. disclose the method for producing a magnesium alloy slurry comprising the steps of pouring molten magnesium metal onto a tilted cooling jig (1,20) (see Figures 21 and 32). The jig is vibrated (column 5, lines 3-5) and is maintained in a semi-solid state, which is lower than a liquidus temperature and higher than a solidus temperature. As shown in Figures 21 and 32, the jig is arranged at an angle between 20 to 80 degrees. Regarding claims 16, 17, and 21, Adachi et al. disclose a tilted cooling body (1,20) (see Figures 21 and 32), such that the device or cooling body is capable of producing a magnesium alloy at temperatures lower than a liquidus state and above a solidus state, which defines a semi-solid state.

Application/Control Number: 10/574,493 Page 3

Art Unit: 1793

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all
obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- Claims 15, 18, 20, and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Adachi et al. (US 6,769,473) in view of Adachi et al. (US 6,165,411).

Regarding claims 15 and 20, Adachi et al. (US '473) discloses the claimed invention above, but is silent to removing supernatant. However, it would have been obvious to one of ordinary skill in the art to remove the supernatant prior to casting, in order to avoid any impurities. Regarding claims 18 and 22, Adachi et al. (US '473) discloses the claimed invention, but is silent with respect to a heat-resistant control bar and a control bar driver.

Application/Control Number: 10/574,493 Page 4

Art Unit: 1793

However, Adachi et al. (US '411) disclose a thermocouple 36 (see Figure 8) with inherently a driver to descend into the tundish 1 for the purpose of controlling the melt (column 12, lines 18-34; and Figure 8).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the applicants' invention was made to include a thermocouple, as taught by US '411, into the teachings of US '473, in order to control the melt (US '411; column 12, lines 18-34).

Response to Arguments

- 6. The examiner acknowledges the applicants' amendment and Information
 Disclosure Statement (IDS) received by the USPTO on March 25, 2008. The IDS of
 March 25, 2008 has been considered and initialed, and a copy is provided with this
 Office Action. The applicants have cancelled claims 1-12, and have added new claims
 13-23. Claims 13-23 are currently under consideration in the application.
- Applicants' arguments with respect to claims 1-12 (which were cancelled and replaced in favor of new claims 13-23) have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

 Applicants' amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly. THIS ACTION IS MADE FINAL. See MPEP Application/Control Number: 10/574,493

Art Unit: 1793

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dr. Kevin P. Kerns whose telephone number is (571)272-1178. The examiner can normally be reached on Monday-Friday from 8:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jessica Ward can be reached on (571) 272-1223. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/574,493 Page 6

Art Unit: 1793

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Kevin P. Kerns Primary Examiner Art Unit 1793

/Kevin P. Kerns/ Primary Examiner, Art Unit 1793 June 28, 2008